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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------|------------------|
| 10/541,512 | 07/08/2005 | Takashi Fukutomi | OGW-0371 | 1667 |
| 23353 75 | 11/02/2006 | | EXAMINER | |
| RADER FISHMAN & GRAUER PLLC LION BUILDING 1233 20TH STREET N.W., SUITE 501 | | | FISCHER, JUSTIN R | |
| | | | ART UNIT | PAPER NUMBER |
| WASHINGTO | N, DC 20036 | | 1733 | |
| | | | DATE MAILED: 11/02/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | _ | | | |
|---|---|---|--|--|--|
| | Application No. | Applicant(s) | | | |
| | 10/541,512 | FUKUTOMI ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Justin R. Fischer | 1733 | | | |
| The MAILING DATE of this communication apperiod for Reply | pears on the cover sheet with the c | correspondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on <u>08 J</u> | | | | | |
| <u></u> | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | |
| closed in accordance with the practice under I | Ex parte Quayle, 1935 C.D. 11, 49 | 53 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 4)⊠ Claim(s) <u>1-5</u> is/are pending in the application. | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | |
| 6) Claim(s) 1-5 is/are rejected. | | | | | |
| 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o | or election requirement | | | | |
| are subject to restriction andre | or crosson requirement. | | | | |
| Application Papers | | | | | |
| 9)☐ The specification is objected to by the Examine | er. | | | | |
| 10)⊠ The drawing(s) filed on <u>08 July 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| The dath of declaration is objected to by the E | xammer. Note the attached Office | Action of form P1O-192. | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | |
| 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| | · | | | | |
| Attachment(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) 🔲 Interview Summary Paper No(s)/Mail Da | | | | |
| Notice of Dransperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>7805</u> . | 5) Notice of Informal F 6) Other: | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suga (JP 52145904) and further in view of Kitamura (JP 58194970) and Kanenari (US 6,209,603). As best depicted in Figure 1, Suga discloses a pneumatic tire construction having an adhesive sealant layer 2 comprising a rubber component to be decomposed by peroxide (e.g. butyl rubber) and 0.1 to 0.8 parts by weight of peroxide per 100 parts by weight of said rubber component (Abstract). Suga, however, is completely silent with respect to the inclusion of reinforcing fibers in the sealant layer. In any event, it is extremely well known to include reinforcing fibers in a wide range of tire components, including similar adhesive sealant layers, in order to provide a high degree of strength and reinforcement, as shown for example by Kitamura (Abstract) and Kanenari (Column 1, Lines 5-10). It is particularly noted that Kitamura is directed to an extremely similar tire construction in which short fibers are included in an adhesive sealant layer. Absent any conclusive showing of unexpected results, one of ordinary skill in the art at the time of the invention would have found it obvious to include reinforcing fibers in the adhesive sealant layer of Suga. It is emphasized that reinforcing members are commonly included in a wide variety of tire components to provide a desired degree of

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strength/reinforcement. Lastly, as to the specific dimensions of the short fibers, Kanenari suggests that the claimed lengths are consistent with the commonly used fibers in the tire industry (Column 18, Lines 45+).

As to claim 2, the tire of Suga includes a protective rubber layer 3 (cover sheet rubber layer).

With respect to claim 3, the claim language is directed to the method of forming the tire and does not further define the claimed tire construction.

As to claims 4 and 5, the sea-island structure required by the claimed invention represents one of the common arrangements of fibrous reinforcement in the tire industry, as shown for example by Kanenari (Column 2, Lines 10-15 and Column 18, Lines 63+). In this instance, Kanenari suggests that such a structure is able to provide an effective amount of reinforcement, as opposed to prior art constructions in which short nylon fibers were used.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R. Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Justin R Fischer Primary Examiner Art Unit 1733

JRF October 31, 2006